

WHAT IS CLAIMED IS:

1. (Original) A vibration correcting optical device, comprising:
  - a vibration detection unit that detects a vibration of the vibration correcting optical device and outputs a vibration detection signal corresponding to the vibration;
  - a vibration state judgment unit that judges a state of the vibration of the vibration correcting optical device to be one of at least three states, based upon the vibration detection signal;
  - an image vibration correcting optical system that corrects an image vibration caused by the vibration of the vibration correcting optical device;
  - a drive unit that drives the image vibration correcting optical system based upon a drive signal;
  - a drive signal arithmetic operation unit that calculates the drive signal based upon the vibration detection signal and outputs the drive signal to the drive unit; and
  - a drive signal calculation control unit that controls a method for calculating the drive signal adopted at the drive signal arithmetic operation unit in conformance to the state of the vibration ascertained through a judgment executed by the vibration state judgment unit.
2. (Original) A vibration correcting optical device according to claim 1, further comprising:
  - a reference value calculation unit that obtains through an arithmetic operation a reference value to be used as a reference in processing the vibration detection signal based upon the vibration detection signal, wherein:
    - the vibration state judgment unit judges the state of the vibration of the vibration correcting optical device based upon the vibration detection signal and the reference value; and

the drive signal arithmetic operation unit calculates the drive signal based upon the vibration detection signal and the reference value.